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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,300	10/29/2003	Hong-Yi Wu	N1085-00189	5122
54657 DUANE MOR	7590 03/09/2007 DISTIP		EXAMINER	
IP DEPARTM	ENT (TSMC)		BASHORE, ALAIN L	
30 SOUTH 17TH STREET PHILADELPHIA, PA 19103-4196			ART UNIT	PAPER NUMBER
THEADERI			1762	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/09/2007	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<del></del>	Application No.	Applicant(s)			
	10/696,300	WU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Alain L. Bashore	1762			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be downward will expire SIX (6) MONTHS from the cause the application to become ABANDO.	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>02</u> 2a)⊠ This action is <b>FINAL</b> . 2b)□ TI     3)□ Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. vance except for formal matters, p				
Disposition of Claims					
4)  Claim(s) 1 and 4-11 is/are pending in the ap 4a) Of the above claim(s) is/are withd 5)  Claim(s) is/are allowed. 6)  Claim(s) 1 and 4-11 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and Application Papers 9)  The specification is objected to by the Exami	rawn from consideration.				
10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date			

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### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 10 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 10 and 12 is lack of antecedent basis respectively for: "the name of the liquid" and "the name of the volatile solution".

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (paragraphs 0003 and 0004) in view of Yoshizawa et al.

The admitted prior art discloses in the fabrication of semiconductor integrated circuits, a method for generating a dummy dispense of liquid. A time at which a substrate is processed, a time at which liquid is dispensed, a time at which the substrate is processed is a move-in time of the substrate, the time at which the liquid is dispensed comprises a last time at which the liquid is dispensed; and a dummy dispense signal are all disclosed. A photoresist solution that is volatile is also disclosed.

There is not disclosed by the admitted prior art:

recording times for substrate processing and liquid dispensing;
comparing the time at which the substrate is processed and the
time at which the liquid is dispensed to determine whether a dummy
dispense is required; and,

recording a recipe for dispensing the liquid and the name of the liquid.

Yoshizawa et al discloses recording times for processing in a manufacturing environment and comparing times to determine if a procedure must be altered (col 3, lines 13-58). Yoshizawa et al also discloses recording a "recipe" in a manufacturing

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environment (col 2, lines 9-28). Film formation for photolithography is disclosed as one type of manufacturing environment (col 1, lines 34-35).

It would have been obvious to one with ordinary skill in the art to include recording times for substrate processing and liquid dispensing, then comparing the time at which the substrate is processed and the time at which the liquid is dispensed to determine whether a dummy dispense is required because Yoshizawa et al teaches collection and monitor data for a successful manufacturing environment (col 2, lines 58-68).

It would have been obvious to one with ordinary skill in the art to include recording a recipe for dispensing the liquid and the name of the liquid because Yoshizawa et al teaches conditions utilized in the manufacturing environment as important (col 2, lines 9-28).

### Response to Arguments

5. Applicant's arguments filed 1-2-07 have been fully considered but they are not persuasive.

The generation of a dummy dispense signal is disclosed in the admitted prior art.

Regarding reasonable expectation of results, the '561 patent discusses manufacturing efficiencies in general, which along with a specific example the type of manufacturing

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environment of the admitted prior art would lead one with ordinary skill in the art to be reasonable and effective.

#### Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alain L. Bashore whose telephone number is 571-272-6739. The examiner can normally be reached on about 7:30 am to 5:00 pm (Mon. thru Thurs.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alain L. Bashore Primary Examiner Art Unit 1762